

EPA Official Record

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From: "Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com>

To: Dave Dickerson/R1/USEPA/US@EPA

Delivered Date: 05/21/2008 03:59 PM EDT

Subject: RE: Alternative 4 Volume and Disposal Assumptions

ATTACHMENT: Volume and Disposal Assumptions_Apex Alt 1 ODA.xls
Agreed - Mark and I were just talking about that. I'll use the volumes with the over-dredge allowance. Here's how the assumptions get revised.

-----Original Message-----

From: dickerson.dave@epamail.epa.gov [mailto:dickerson.dave@epamail.epa.gov]

Sent: Wednesday, May 21, 2008 3:35 PM

To: Rigassio-Smith, Anita

Subject: RE: Alternative 4 Volume and Disposal Assumptions

Anita - thats probably just rounding error (I rounded while adding),
and given the large volumes probably insignificant as well.

D.

"Rigassio-Smith,
Anita"

<Anita.Rigassio-
Smith@jacobs.com
>

To

Dave Dickerson/R1/USEPA/US@EPA

cc

05/21/2008 12:22

Subject

PM

RE: Alternative 4 Volume and

Disposal Assumptions

Sure! I used the "Volume in Cubic Yards" from Table 1 (or Table 2 -
they're

the same), which is the theoretical volume if removing to Z*. Even if I use the Total Volume, which is the theoretical plus an over-dredge allowance, I get closer to your numbers but still can't match them. I'm off by 4,000-5,000 cy.

-----Original Message-----

From: dickerson.dave@epamail.epa.gov
[mailto:dickerson.dave@epamail.epa.gov]
Sent: Wednesday, May 21, 2008 11:52 AM
To: Rigassio-Smith, Anita
Subject: RE: Alternative 4 Volume and Disposal Assumptions

hhmmm, I'm using the same report. I'll be on site tomorrow if you want to go over this with the table and figures in front of us?

"Rigassio-Smith,
Anita"

<Anita.Rigassio-Smith@jacobs.com> To
Dave Dickerson/R1/USEPA/US@EPA
cc

05/21/2008 09:34 AM Subject
RE: Alternative 4 Volume and
Disposal Assumptions

Hi Dave,

I went back to the Final Volumes, Areas and Properties report (FW June 2003) and double-checked my volumes. I come up with the same numbers?

Please provide me the source you are using for your volumes so we can match.

Anita

-----Original Message-----

From: dickerson.dave@epamail.epa.gov
[mailto:dickerson.dave@epamail.epa.gov]
Sent: Tuesday, May 13, 2008 10:46 AM

To: Rigassio-Smith, Anita
Cc: stanley.elainet@epamail.epa.gov; paul.g.l'heureux@usace.army.mil;
Fox,
Steve (New Bedford)
Subject: RE: Alternative 4 Volume and Disposal Assumptions

Thanks Anita. My z* volume guess was pretty close. And yes, we will dredge inside and outside of the Apex Alt. 1 footprint this year and next (and maybe 2010 too??) so that the future shore-based excavation in the cove will be more manageable. And the Apex Alt. 1 CAD footprint will be the basis for the JE Alt. 4 cost estimate. (confusing, isn't it!!)

Dave

"Rigassio-Smith,
Anita"
<Anita.Rigassio-Smith@jacobs.com> To
Dave Dickerson/R1/USEPA/US@EPA
> cc
<paul.g.l'heureux@usace.army.mil>
05/13/2008 10:13 , "Fox, Steve \ (New Bedford\)"
AM <Steve.Fox@jacobs.com>, ElaineT
Stanley/R1/USEPA/US@EPA
Subject
RE: Alternative 4 Volume and
Disposal Assumptions

Hi Dave,

Using the Apex Alternative #1 CAD Cell, the Z* volume to dredge is 31,732 cy. The footprint is attached to show you that on the eastern edge we allowed full Z-blocks, instead of partial Z-blocks, which the Apex coordinates would have dictated. We are verifying the other material volumes, since you suggested there is some discrepancy there.

Just to confirm, we are assuming that we are using the Apex CAD Cell Alternative #1 for the purposes of the CAD Cell Estimate #4 and for developing the CAD cell, but that the dredge footprint for the 2008 hydraulic season will remain as shown in the final execution plan, i.e., with the dog leg plus extension into the shallow areas of the cove. Any areas outside of the Apex CAD Cell #1 footprint (as shown in the

attached figure) will be dredged to Z* for sediment removal purposes, but not for CAD cell development purposes.

I will let you know what we find with our evaluation of the various material volumes.

Anita

-----Original Message-----

From: dickerson.dave@epamail.epa.gov
[mailto:dickerson.dave@epamail.epa.gov]
Sent: Fri 5/9/2008 4:24 PM
To: Rigassio-Smith, Anita
Cc: paul.g.l'heureux@usace.army.mil; Fox, Steve (New Bedford);
stanley.elainet@epamail.epa.gov
Subject: Re: Alternative 4 Volume and Disposal Assumptions

Hi Anita - sorry for the delay in getting back to you. But after further evaluation I believe we should stick with the Apex "Alternative 1" footprint (less contaminated organics to lower harbor CAD cell, greater buffer zone from residential/recreational areas, sufficient volume, etc.).

The biggest uncertainty at this point is the volume of "unsuitable" silts that would remain after dredging to z*. Do we have a z* estimate for this smaller "Alt. 1" CAD cell footprint? Once I have that I can do a better job estimating the volume of this "unsuitable" material that would go to the lower harbor CAD cell.

Per the CAD cell report, 62,000 cy of "suitable" silts would be disposed offshore, and 422,000 cy of clean material would be used beneficially or disposed offshore.

Also, something doesn't look quite right on the assumed volumes from the MUs and mudflats:

MU1 - 24:	457,000 cy
mudflats 102-105:	76,000 cy
subtotal	533,000 cy
minus	86,000 cy dredged to date

minus ~35,000 cy to z* from within CAD
footprint
(this is my rough guess, to be refined by JE)

Total 412,000 cy (u.h. CAD cell just about full)

Lower Harbor CAD cell:

MU25 - 31: 110,600 cy (remaining upper harbor)
MU32 - 37': 161,000 cy (remaining lower harbor with
10k cy
adjustment for MU37 due to pilot cap)

subtotal 272,000 cy

plus ~30,000 cy (very rough guess on unsuitable silts
from
u.h. CAD)

Total: ~302,000 cy

Hope this helps. Again, lets discuss further once a z* volume
for the
Alt.1 CAD footprint has been developed.

Thanks!

Dave

"Rigassio-Smith

, Anita"

<Anita.Rigassio

To

-Smith@jacobs.c Dave

Dickerson/R1/USEPA/US@EPA

om>

cc

"Fox, Steve \ (New Bedford\)"

05/05/2008 <Steve.Fox@jacobs.com>,

11:33 AM

<paul.g.l'heureux@usace.army.mil>

Subject

Alternative 4 Volume and

Disposal

Assumptions

Hi Dave,

I put this together after our discussion of Alternative 4 on Friday.
This is what I will work from, unless you have any changes.

Anita

JE JACOBS
Anita Rigassio Smith
Environmental Engineer
103 Sawyer Street
New Bedford, MA 02746
Office 508.996.5462 x210
Mobile 508.802.7320

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- Volume and Disposal Assumptions_Apex Alt 1_ODA.xls